PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference F1290P-WO	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No.	International filing date (day/mo	nth/year) Priority date (day/month/year)						
PCT/JP2004/014174	28.09.2004	02.10.2003						
International Patent Classification (IPC) or nation	onal classification and IPC							
B21D24/00, B21D22/20 , B21D37/16, B30B1S/34								
Applicant		·						
NIPPON STEEL CORPORAT	LION							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of	4 si	neets, including this cover sheet.						
3. This report is also accompanied by Al	NNEXES, comprising:							
a. (sent to the applicant and	to the International Bureau) a tot	al of 3 sheets, as follows:						
sheets of the descrip	otion, claims and/or drawings whi	ch have been amended and are the basis for this report and/or						
sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supers	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond							
the disclosure in the Box.	s international application as filed	I, as indicated in item 4 of Box No. I and the Supplemental						
b. (sent to the International I	Bureau only) a total of (indicate ty	pe and number of electronic carrier(s))						
	•	, containing a sequence listing and/or tables						
		in the Supplemental Box Relating to Sequence Listing (see						
Section 802 of the Administ	<u> </u>							
4. This report contains indications relati	ng to the following items:							
Box No. I Basis of the	report							
Box No. II Priority								
Box No. III Non-establi	shment of opinion with regard to	novelty, inventive step and industrial applicability						
Box No. IV Lack of unit	ty of invention							
	isoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; tions and explanations supporting such statement							
Box No. VI Certain doc	cuments cited							
Box No. VII Certain defe	efects in the international application							
Box No. VIII Certain obs	observations on the international application							
Date of submission of the demand	Date of co	empletion of this report						
		-						
Name and mailing address of the IPEA/JP		d officer						
Facsimile No.	Telephone	No.						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/014174

Вох	No. I	Basis of the report				
1.	•	d to the language, this report is based on the internation	nal application in the language in wh	ich it was filed, unless otherwise		
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)					
		international preliminary examination (Rule 55.2 and/	,			
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description:					
	page:	s <u>1-13</u>		as originally filed/furnished		
	page:	S*	received by this Authority on			
	page	s*	received by this Authority on			
	the c	laims:				
	nos.			as originally filed/furnished		
	nos.*			rith any statement) under Article 19		
	nos.*	1-13	received by this Authority on0	2.08.2005		
ŀ	nos.*		received by this Authority on			
	M the d	rawings:	_			
	sheet	_		as originally filed/furnished		
	sheet					
	sheet		_			
	L a seq	uence listing and/or any related table(s) – see Supplem	ental Box Relating to Sequence Listi	ing.		
3.	The:	amendments have resulted in the cancellation of:				
		the description, pages				
	\boxtimes	the claims, nos. 14-16				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4.	This they	report has been established as if (some of) the amendave been considered to go beyond the disclosure as fi	dments annexed to this report and listled, as indicated in the Supplemental	sted below had not been made, since I Box (Rule 70.2(c)).		
		the description, pages				
	the claims, nos.					
	the drawings, sheets/figs					
	the sequence listing (specify):					
	any table(s) related to sequence listing (specify):					
*	If item 4 a	pplies, some or all of those sheets may be marked "sup				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/014174

Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	1-13	_ YES		
		Claims		_ NO		
	Inventive step (IS)	Claims	1-13	_ YES		
		Claims		_ NO		
	Industrial applicabilit	y (IA) Claims	1-13	YES		
				_ NO		
2.	Citations and explanation	s (Rule 70.7)				
	-		282951 A (Toyota Motor Corp.; Toyoda			
			ks Co., Ltd.; Sumitomo Metal			
			es, Ltd.), 02 October 2002, entire			
			the document			
	Document 2:		435 A (Aida Engineering, Ltd.), 02			
			988, entire text of the document			
	Document 3:	JP 2002-	96121 A (Takao WATANABE), 02 April			
		2002, en	ntire text of the document			
	Document 4:	JP 46-50	59 A (The Badd Co.), 24 November			
		1971, er	ntire text of the document			
	Document 5:	JP 10-18	0366 A (Pacific Industrial Co.,			
		Ltd.), C	7 July 1998, entire text of the			
		document	:			
	Document 6:	Microfil	m of the specification and drawings			
		annexed	to the request of Japanese Utility			
 		Model Ar	oplication No. 178518/1988 (Laid-open			
		No. 8482	26/1989) (Toyota Auto Body Co.,			
ŀ		Ltd.),	06 June 1989, entire text of the			
		document	:			
	Document 7:	JP 7-144	235 A (NKK Corp.), 06 June 1989,			
		entire t	ext of the document			
	Document 8:	JP 7-474	31 A (Mitsubishi Electric Corp.), 21			
		February	1995, entire text of the document			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/014174

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document 9: JP 57-22827 A (Hitachi Zosen Corp.), 05

February 1982, entire text of the document

Document 10: JP 6-182457 A (Mazda Motor Corp.), 05 July 1994, entire text of the document

The inventions set forth in claims 1 to 13 are not disclosed in any of the documents that are cited in the international search report, and would not have been obvious to a person skilled in the art.